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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/563,045	06/30/2006	Alessandro Moretta	INN.133	6062
23557	7590	08/19/2010	EXAMINER	
SALIWANCHIK LLOYD & SALIWANCHIK A PROFESSIONAL ASSOCIATION PO Box 142950 GAINESVILLE, FL 32614			DIBRINO, MARIANNE NMN	
			ART UNIT	PAPER NUMBER
			1644	
			NOTIFICATION DATE	DELIVERY MODE
			08/19/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

euspto@slspatents.com

Office Action Summary	Application No.	Applicant(s)	
	10/563,045	MORETTA ET AL.	
	Examiner	Art Unit	
	MARIANNE DIBRINO	1644	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 03 June 2010.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 70-91 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) 70-77 & 79-87 is/are allowed.
 6) Claim(s) 88-91 is/are rejected.
 7) Claim(s) 78 is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____. _____	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

1. Applicant's amendment filed 6/3/10 is acknowledged and has been entered.
2. Applicant' is reminded of Applicant's election without traverse of the Invention of Group I and the species of isolated antibody DF200, a detectable moiety, IL-2 as the additional component, and antibody that binds to KIR2DL1 and KIR2DL2/3 and neutralizes KIR mediated inhibition of NK cell cytotoxicity, in Applicant's amendment filed 4/24/09
70-77 and 79-89 are presently being examined.
3. For the purpose of prior art rejections, the filing date of the instant claims 70-77, 79 and 81-91 is deemed to be the filing date of the 60/483,894 parent provision application, *i.e.*, 7/2/03. The filing date of instant claim 80 is deemed to be the filing date of the 60/483,894 parent provision application, as 60/483,894 does not provide support for wherein the composition recited in instant claim 80 further comprises IL-2.
4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –
(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
5. Applicant's amendment has overcome the prior rejection of record of claims 70-77, 79 and 81-87 under 35 U.S.C. 102(e) as being anticipated by US 2005/0037002 A1 (of record, has priority to 7/24/03).
6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.
7. Claim 80 is rejected under 35 U.S.C. 103(a) as being obvious over US 2005/0037002 A1 (of record) in view of Eisenthal *et al* (J. of Immunol. 1990, 144: 4463-4471).

Claim 80 was previously rejected upon this ground of rejection in the prior Office Action of record.

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by: (1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not an invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an oath or declaration under 37 CFR 1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). This rejection might also be overcome by showing that the reference is disqualified under 35 U.S.C. 103(c) as prior art in a rejection under 35 U.S.C. 103(a). See MPEP § 706.02(I)(1) and § 706.02(I)(2).

US 2005/0037002 A1 discloses making antibodies or fragments (such as human, humanized, chimeric, and fragments of these such as Fab or Fab'2) thereof that block the KIR2DL receptors of NK cells by: (1) immunizing a non-human mammal, including a mouse, rat, bovine, porcine, horse, rabbit, goat, sheep or XENOMOUSE, with an immunogen comprising a KIR2DL polypeptide, including one on the surface of an NK cell, (2) preparing monoclonal antibodies from the said immunized animal, wherein said monoclonal antibodies bind said KIR2DL polypeptide, (3) selecting monoclonal antibodies from step (2) that cross react with at least two different serotypes of KIR2DL polypeptides, and (4) selecting monoclonal antibodies of (3) that inhibit KIR2DL-mediated inhibition of NK cells, such as KIR2DL-mediated inhibition of NK cytotoxicity, and additionally selecting and isolating an antibody that binds to a human (*i.e.*, a primate) NK cell and to KIR2DL1 and KIR2DL2/3. US 2005/0037002 A1 discloses that the antibodies preferably bind a common determinant of KIR2DL human receptors such as KIR2DL1 and KIR2DL2/3, and that the monoclonal antibody is DF200, binds to the same epitope as DF200 or competes for binding with DF200. US 2005/0037002 A1 discloses that the antibody may be an antigen-binding fragment of one of the aforementioned antibodies. US 2005/0037002 A1 also discloses that the antibody used for therapy may have a human or non-human primate IgG1 or IgG3 Fc portion. US 2005/0037002 A1 discloses that the inhibitory antibody (such as DF200) or fragment thereof may be administered with a therapeutic antibody in order to treat cancer by enhancing ADCC of the therapeutic antibody (see entire reference, especially [0022], [0053]-[0055], [0062], [0073][0075], [0079]-[0082], [0087]-[0088], [0096], [0100], [0104], [0125]-[0129], Examples).

US 2005/0037002 A1 can not be relied upon to the filing date (*i.e.*, 7/24/03) of its parent provisional application (*i.e.*, 60/489,489) for the teaching that the antibody composition further comprises IL-2 (*i.e.*, the limitation recited in instant claim 80).

Eisenthal *et al* teach that administration of appropriate cytokines such as IL-2 may be a useful adjunct to the administration of mAb for the treatment of cancer in humans, by increasing ADCC, Including that mediated by NK cells (see entire reference, especially abstract and introduction sections).

It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to have included IL-2 as taught by Eisenthal *et al* in the antibody composition taught by US 2005/0037002 A1.

One of ordinary skill in the art at the time the invention was made would have been motivated to do this in order to make a composition that could increase ADCC in order to treat cancer.

In addition, the motivation to combine can arise from the expectation that the prior art elements will perform their expected functions to achieve their expected results when combined for their common known purpose. Section MPEP 2144.07.

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

9. Claims 88-91 are rejected under 35 U.S.C. 102(b) as being anticipated by Shin *et al* (Hybridoma, 1999, 18(6): 521-527, abstract).

Shin *et al* teach an antibody that binds both KIR2DL1 and KIR2DL2/3 (abstract).

With regard to the functional property of neutralizing KIR-mediated inhibition, although the art reference does not explicitly teach this property, the art reference teaches that the antibody reacted with NK cells. With regard to the issue of competing with the DF200 mAb, although the art reference does not explicitly teach this limitation, the antibody reacts with both receptors and with NK cells. Therefore the claimed antibody appears to be the same or similar to the antibody of the prior art absent a showing of unobvious differences. In addition, with regard to the composition claim, the art reference teaches the antibody in a composition used for FACs, *i.e.*, in PBS. Alternatively, the skilled artisan was aware that PBS was a storage buffer for antibodies. Since the Patent Office does not have the facilities for examining and comparing the composition of the instant invention to those of the prior art, the burden is on Applicant to show a distinction between the antibody of the instant invention and that of the prior art. See *In re Best*, 562 F.2d 1252, 195 USPQ 430 (CCPA 1977).

10. Claim 78 is objected to because of the following informality: The claim should recite “or covalently bound to a toxin..., *i.e.*, the claim is missing “to a”. Appropriate correction is required.

11. Claims 70-79 and 81-87 are free of the prior art of record.

12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

13. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Marianne DiBrino whose telephone number is 571-272-0842. The Examiner can normally be reached on Monday, Tuesday, Thursday and Friday.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Ram Shukla, can be reached on 571-272-0735. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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